

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-11. (canceled)

12. (currently amended) A sound-correction apparatus in the audio apparatus installed in a vehicle comprising:

an adjustment device adjusting the sound-volume in the full frequency range of the reproduced signal;

a low-frequency-correction device which corrects the sound in the low-frequency range;

a high-frequency-correction device which corrects sound in the high-frequency range;

an extraction device that extracts [[the]] a low-frequency component below the audible frequency of noise picked up by a microphone;

a first detection device that detects the vehicle speed;

a second detection device which detects the amount of adjustment by said adjustment device;

a first calculation device that calculates the amount of low-frequency correction that is corrected by said low-frequency-correction device according to the ratio of said low-

frequency component extracted by said extraction device, and said adjustment amount detected by said second detection device; and a second calculation device that calculates the amount of high-frequency correction that is corrected by said high-frequency-correction device according to said detected vehicle speed,

wherein the extraction device comprises a low pass filter used to extract the low-frequency component below the audible frequency of noise picked up by the microphone.

13. (currently amended) The sound-correction apparatus of claim 12 comprising:

a memory device that stores said amount of low-frequency correction in correspondence to the ratio of said low-frequency component extracted by said extraction device, and said amount of adjustment detected by said second detection device, and stores said amount of high-frequency correction in correspondence to said detected adjustment amount[[],] and said vehicle speed and ~~said opened/closed status~~; and wherein

    said low-frequency-correction device performs correction based on said amount of low-frequency correction stored in said memory device, and

    said high-frequency-correction device performs correction based on said amount of high-frequency correction stored in said memory device.

14. (previously presented) The sound-correction apparatus of claim 12 wherein

    said amount of low-frequency correction increases with respect to said adjustment amount detected by said second detection device according as the level of said low-frequency component extracted by said extraction device increases.

15. (currently amended) The sound-correction apparatus of claim 12 wherein

    said amount of low-frequency correction is the amount ~~that the of~~ of sound [[of]] at frequencies below a specified frequency that is corrected, and it increases according as the frequency is lower.

16. (currently amended) The sound-correction apparatus of claim 12 wherein

    said amount of high-frequency correction is the amount ~~that the sound in the full range of the signal being reproduced~~ of the sound at frequencies above a specified frequency that is corrected, and it increases according as the frequency is higher.

17. (original) The sound-correction apparatus of claim 12 wherein

    said amount of high-frequency correction increases according as said vehicle speed increases.

18. (canceled)

19. (previously presented) The sound-correction apparatus of claim 12 wherein

    said amount of high-frequency correction decreases according as said adjustment amount detected by said second detection device increases.

20. (currently amended) A sound-correction method for the audio apparatus installed in a vehicle having an adjustment process of adjusting the sound volume of the full frequency range of the signal being reproduced, comprising:

    an extraction process of extracting [[the]] a low-frequency component of noise picked up by a microphone below the audible frequency;

    a first detection process of detecting the vehicle speed;

    a second detection process of detecting the opened/closed status of an opening/closing mechanism in the vehicle;

a third detection process of detecting the adjustment amount by said adjustment process;

an acquisition process of acquiring the ratio of said low-frequency component extracted by said extraction process and said adjustment amount detected by said third detection process;

a first calculation process of calculating the low-frequency-correction characteristics according to the ratio calculated by said acquisition process;

a second calculation process of calculating the high-frequency-correction characteristics according to said adjustment amount, said vehicle speed and said opened/closed status;

a low-frequency-correction process of correcting the sound in the low-frequency range based on said low-frequency-correction characteristics calculated by said first calculation process; and

a high-frequency-correction process of correcting the sound in the high-frequency range based on said high-frequency-correction characteristics calculated by said second calculation process,

wherein the extraction process comprises the process of extracting the low-frequency component below the audible frequency of noise picked up by the microphone.

21. (new) The method of claim 20, wherein the extraction process step uses a low-pass filter to extract the low frequency component.